

**Abstract**

A mechanical weighing scale having mechanical parts driving a pointer rotating around a fixed disc or dial having slots or holes formed therein. The mechanical pointer operates to provide an analog display of one's weight to the user. An optical sensor system is responsive to the mechanical motion of the mechanically-rotating pointer as it passes over each of the holes or slots for determining a number of counts associated with the mechanical motion of the rotating pointer and translating the counts to a corresponding weight value for display onto a digital display.

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